Express Mail No.: EL656358033US Date: December 22, 2000

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

<u>ANTONELLA FUSILLO</u>

(Name of person mailing paper or fee)

(Signature)

TRANSMITTAL LETTER TO THE UNITED STATES OFFICE (DO/EO/US) CONCERNING A FILING UNDE	Attorney's Docket No: WELLISCH	
INTERNATIONAL APPLICATION NO. PCT/DE99/01772	INTERNATIONAL FILING DATE June 16, 1999	PRIORITY DATE CLAIMED June 29, 1998

TITLE OF INVENTION

ELECTRIC MOTOR

APPLICANT(S) FOR DO/EO/US

ERNST WELLISCH

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- 1. [X] This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
- 2.[] This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
- 3. [X] This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
- 4. [] A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
- 5. [X] A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - is transmitted herewith (required only if not transmitted by the International Bureau). a. [X]
 - has been transmitted by the International Bureau. b. []
 - is not required, as the application was filed in the United States Receiving Office (RO/US) c. []
- 6. [X] A translation of the International Application into English (35 U.S.C. 371(c)(2)).
- Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - are transmitted herewith (required only if not transmitted by the International Bureau).
 - have been transmitted by the International Bureau. b. []
 - have not been made; however, the time limit for making such amendments has NOT expired. c. []
 - d. [] have not been made and will not be made.
- A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 8.[]
- 9. [X] Original or facsimile of an oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
- A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 10. [] 371(c)(5)).

Items 11. to 16. concern other document(s) or information included:

- An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
- 12. [X] An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- 13. [X] A FIRST preliminary amendment.
 - A SECOND or SUBSEQUENT preliminary amendment.
- 14. [] A substitute specification.
- 15. [] A change of power of attorney and/or address letter.
- Other items or information: International Search Report and Form PTO-1449

U.S.APPLICATION NO. (If Proven, see 37 CFR 1.5)		INTERNATIONAL A	PPLICATION NO.		ATTORN	EY'S DOCKET NO.
07/72052	.U	PCT	/DE99/01772		\\	WELLISCH
17. [X] The following fees are submitted : BASIC NATIONAL FEE (37 C.F.R.	1.492(a)(1)-((5):				
[X] For filing with EPO or JPO search	h report (37	C.F.R. 1.492(a)((5))	\$ 860.	00	\$860.00
[] International preliminary examinat	tion fee paid	to USPTO (37 C	C.F.R. 1.492(a)(1))	\$ 690.	00	
[] No international preliminary exam but international search fee paid to	nination fee p to USPTO (3	aid to USPTO (3 7 C.F.R. 1.445(a	37 C.F.R. 1.492(a)(2 a)(2)))) \$ 710.	00	
[] Neither international preliminary e nor international search fee paid t				a)(3)) \$1,000 .	00	
[] International preliminary examinational and all claims satisfied provisions	tion fee paid s of PCT Arti	to USPTO (37 C cles 33(2)-33(4)	C.F.R. 1.492(a)(4))	\$ 100.	00	
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. [X]	A check in the	amount of	\$900.00 to	cover the	e above :	fees is en	closed.
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- Please charge my Deposit Account No. <u>06-0502</u> in the amount of \$_____ to cover the above fees. A duplicate b. [] copy of this sheet is enclosed.
- The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any c. [X] overpayment to Deposit Account No. 06-0502. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b) must be filed and granted to restore the application to pending status.

Send all correspondence to:

HENRY M. FEIEREISEN 350 Fifth Avenue Suite 3220 New York, N.Y. 10118 (212) 244-5500 Date: December 22, 2000

HENRY M. FÉJÉREISEN

Registration No. 31,084

09/720520 PATENT 528 Rec'd PCT/PTO 22 DEC 2000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.: WELLISCH

In re Application of:)
ERNST WELLISCH	}
Int. Appl. No.: PCT/DE99/01772	
Int. Filing Date: June 16, 1999)
For: ELECTRIC MOTOR)

FIRST PRELIMINARY AMENDMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Express Mail mailing label number: <u>EL656358033US</u>
Date of Deposit: <u>December 22, 2000</u>

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(Name of person mailing paper or fee)

(Signature)

SIR:

Preliminary to the first Official Action in the above-entitled application, please amend the application as follows:

Docket No.: WELLISCH Int. Appl. No.: PCT/DE99/01772

CLEAN VERSION OF AMENDED CLAIMS:

4. (Amended) Electric motor according to claim 1, characterized in that the electric motor is a high-speed, heavy-duty asynchronous motor.

Docket No.: WELLISCH Int. Appl. No.: PCT/DE99/01772

VERSION WITH MARKINGS TO SHOW CHANGES MADE:

IN THE SPECIFICATION:

Page 1, before the title, delete "Description".

Before paragraph [0001], add --BACKGROUND OF THE INVENTION--.

Before paragraph [0004], add the heading --SUMMARY OF THE INVENTION--.

Before paragraph [0010], add the heading --BRIEF DESCRIPTION OF THE DRAWING--.

Before paragraph [0016], add the heading --DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS--.

Page 6, after the heading "CLAIMS" and before the first claim add --What is claimed is:--.

IN THE CLAIMS:

Amend the following claims:

Claim 4, line 1, change "one of the preceding claims " to --claim 1--.

Docket No.: WELLISCH Int. Appl. No.: PCT/DE99/01772

REMARKS

This Amendment is submitted preliminary to the issuance of an Office

Action in the present application.

Applicant has amended claim 4 to remove any multiple dependency of the

claim. In addition, applicant has amended the specification to present it with proper

headings.

When the Examiner takes this application up for action, he is requested to

take the foregoing into account.

The Commissioner is hereby authorized to charge fees which may be

required, or credit any overpayment to Deposit Account No. 06-0502.

Respectfully submitted,

By:

Henry M. Feiereisen Agent for Applicant

Reg! No. 31,084

Date: December 22, 2000

350 Fifth Avenue

Suite 3220

New York, N.Y. 10118

(212) 244-5500

HMF:af

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ELECTRIC MOTOR

[0001] The invention relates to an electric motor including a stator and a rotor which includes at least a stack of laminations layered by sheets and provided with slots for receiving rotor windings.

[0002] German Pat. No. DE 1 107 804 discloses an electric machine in which the dampening cage of the armature includes poles or pole shoes and is made through dead-mold casting, permanent mold casting or die casting. The short-circuit rings are configured as prolonged pole tips which support the winding, disposed on the pole shank, on the end faces of the pole iron as protection against a deformation or destruction through centrifugal forces, and extend into the space between two neighboring pole windings. Hereby, the high centrifugal forces of the armature are only partly absorbed.

Moreover, it is known, to fabricate the stack of laminations of the armature with end sheets of structural steel or compression rings. The end sheets are configured in the slot area as pressure fingers to effect an axial support. There is no radial force-fitting engagement between end sheet and the short circuit bars in the slot area. The support effect at the bar end must be assumed by the electric sheet. The slots of the electric sheet for receiving the

rotor bars are provided with a leakage orifice which is open toward the outer diameter of the sheet. During operation, the rotor bars are pushed by the centrifugal forces to the outside and supported in the area of the leakage orifice at the rod end of the stack of laminations. At this location, the yield point and the strength of the electric sheet restrict a higher operational speed.

[0004] It is therefore an object of the invention to provide an electric motor having a rotor configured for high speeds while ensuring a high operational safety.

The posed object is attained by providing at the end face of at least one stack of laminations at least one rotor end sheet which is made of high-strength fine-grain structural steel and exhibits, at least in proximity of the rotor axis, the geometric shape of the sheets layered in the stack of laminations.

These rotor end sheets of high-strength fine-grain structural steel may be made through laser cutting, water-jet cutting or other suitable cutting processes and exhibit a high yield point and strength (770 to 980 Nm/mm²). Thus, material stress during operation at high speeds can be durably coped with. The fatigue strength of these materials ranges for the stated strength zone at 310 to 400 Nm/mm².

[0007] The rotor end sheets are shrunk or pressed onto the finished or unfinished rotor shaft.

In accordance with a further embodiment, the leakage orifices of the rotor end sheets are closed so as to realize a further compaction and thus an increase in the yield point of the electric sheets. Radial forces, applied in particular by the winding head at high speeds can be better absorbed in this manner. In addition, the winding or the winding heads are supported hereby at less stress to the material in the area of the electric sheets. As a consequence of arranging at least some leakage orifices in the rotor end sheet, the electromagnetic properties can be enhanced. By a preferred enlargement of the cross section in the area that is subject to high strain, material stress can be further reduced.

[0009] Apart from the rotor end sheets of the individual stacks of laminations, also electric sheets or partial stacks of laminations, positioned axially further inwardly, form a closed leakage orifice and thereby contribute to a further support of the winding and the winding heads, without adversely affecting the electromagnetic properties of the armature.

[0010] The invention as well as further advantageous configurations of the invention according to the features set forth in the subclaims will now be

described in more detail with reference to exemplified embodiments illustrated schematically in the drawing, in which:

[0011]	FIG. 1	shows an axial section of a rotor of this type;
[0012]	FIG. 2	shows a cross section of a rotor end sheet;
[0013]	FIG. 3	is a cross section of a further rotor end sheet;
[0014]	FIG. 4	is a cutaway view of a rotor end sheet with closed
leakage or	rifice;	

[0015] FIG. 5 is a cutaway view of a rotor end sheet with open leakage orifice.

FIG. 1 shows a rotor shaft 1 on which a stack of laminations 2 is shrunk or pressed and has on its respective end faces 3, 4 rotor end sheets 5. The rotor end sheets 5 have axial openings 6. These openings 6 correspond to the openings of the stack of laminations 2. These openings 6 serve substantially to provide an axis-parallel supply of cooling air. Diecast rings 7 are positioned at the respective end faces 3, 4 of the rotor end sheets 5 for axial securement of the stack of laminations 2, and are also provided with openings 8 for passage of the stream of cooling air.

[0017] FIGS. 2, 3 show a cross section of half of such a rotor end sheet 5, including the openings 6 for the cooling air stream and the slots 8 located at the outer perimeter for accommodation of the rotor windings or bars, not shown in more detail.

[0018] According to FIGS. 4, 5, the slots 8 have hereby an open leakage orifice 9 or a closed leakage orifice 10. The closed leakage orifices 10 have the advantage of contributing to a further increase of the yield point at high speeds of the motor. In contrast thereto, the open leakage orifices 9 have better electromagnetic properties.

[0019] At operation of an electric motor, not shown in more detail, the centrifugal forces act primarily upon the rotor end sheets 5 which are made of high-strength fine-grain structural steel, so that the slots 8 of the stack of laminations 2 are relieved. The winding heads as well as the windings themselves are supported essentially by the rotor end sheets 5. Such rotor end sheets 5 are mainly produced through a cutting process, such as water-jet cutting or laser cutting. Of course, other cutting processes or punching processes are also suitable in this context.

CLAIMS

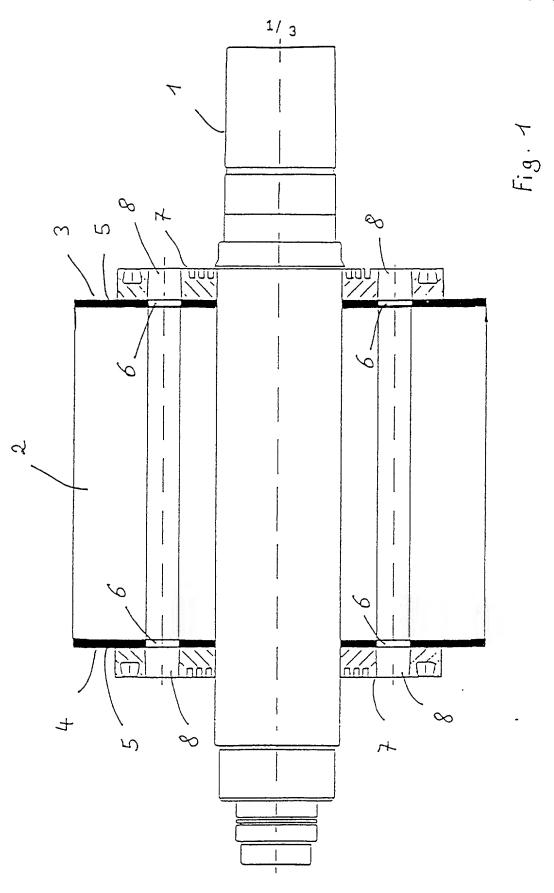
- 1. Electric motor including a stator and a rotor which includes at least a stack of laminations (2) layered by sheets and provided with slots (8) for receiving rotor windings, characterized in that at the end face (3, 4) of at least one stack of laminations (2) at least one rotor end sheet (5) is provided which is made of high-strength fine-grain structural steel and exhibits, at least in proximity of the rotor axis, the geometric shape of the sheets layered in the stack of laminations (2).
- 2. Electric motor according to claim 1, characterized in that the slots (8) of the rotor end sheet (5) are closed.
- 3. Electric motor according to claim 1, characterized in that the slots (8) of the rotor end sheet (5) have, at least some, leakage orifices (9).
- Electric motor according to one of the preceding claims, characterized in that the electric motor is a high-speed, heavy-duty asynchronous motor.

ABSTRACT

Electric Motor

In an electric motor with a stator and a rotor which includes at least a stack of laminations (2) layered by sheets and provided with slots (8) for receiving rotor windings, at the end face (3, 4) of at least one stack of laminations (2) at least one rotor end sheet (5) is provided which is made of high-strength fine-grain structural steel and exhibits, at least in proximity of the rotor axis, the geometric shape of the sheets layered in the stack of laminations (2). With such a rotor, high speeds and a high operational safety can be ensured.

Fig. 2



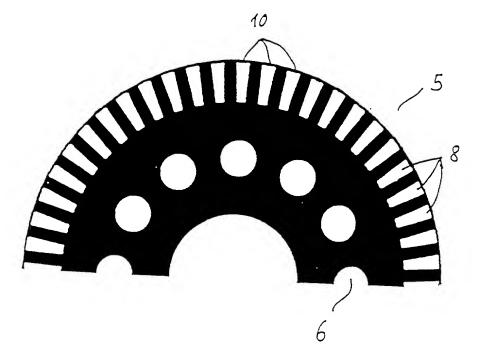


Fig. 2

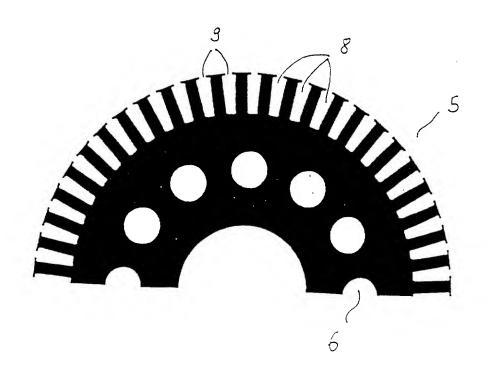


Fig. 3

3/3

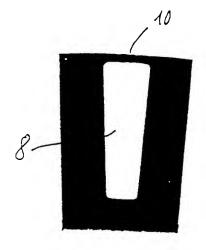


Fig. 5

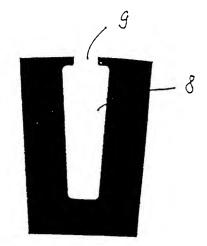


Fig. 4

ΠĴ 12 Ŋ <u>_</u> M N NJ

[X]

Declaration and Power of Attorney for Patent Application Erklärung für Patentanmeldungen mit Vollmacht German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:

daß mein Wohnsitz, meine Postanschrift, und meine Staatsangehörigkeit den im Nachstehenden nach meinem Namen aufgeführten Angaben entsprechen,

daß ich, nach bestem Wissen, der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent beantragt wird für die Erfindung mit dem Titel:

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ELEKTROMOTOR

deren Beschreibung (zutreffendes ankreuzen)

hier beigefügt ist.

wurde angemeldet am 16 Juni 1999 unter der U.S.-Anmeldungs Nr. oder unter der Internationalen Anmeldenummer im Rahmen des Vertrags über die Zusammenarbeit auf dem Gebiet des Patentwesens (PCT) und am

PCT/DE99/01772 abgeändert (falls

zutreffend).

ELEKTROMOTOR

the specification of which (check one)

is attached hereto

was filed on 16 June 1999

as United States Application Number or PCT International Application Number

PCT/DE99/01772

was amended on

(if applicable).

Ich bestätige hiermit, daß ich den Inhalt der obigen Patentanmeldung einschliesslich der Ansprüche durchgesehen und verstanden habe, die eventuell duch einen Zusatzantrag, wie oben erwähnt. abgeändert wurde

erkenne meine Pflicht zur Offenbarung irgendwelcher Informationen an, die für die Prüfung der vorliegenden Anmeldung in Einklang mit Titel 37, Code of Federal Regulations, §1.56 von Belang sind.

Ich beanspruche hiermit ausländische Prioritätsvorteile gemäss Titel 35, US-Code, §119(a)-(d), bzw. §365(b) aller unten angegebenen Auslandsanmeldungen für ein Patent oder Erfinderurkunden, oder §365(a) aller PCT internationalen Anmeldungen, welche wenigstens ein Land ausser den Vereinigten Staaten von Amerika benennen, und habe nachstehend durch ankreuzen sämtliche Auslandsanmeldungen für Patente oder PCT internationale Erfinderurkunden oder Anmeldungen angegeben, deren Anmeldetag dem der Anmeldung, für welche Priorität beansprucht wird, vorangeht.

I horeby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United Statos Code, §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

1 of 3

Prior Foreign Appli (Frühore ausländis	cations che Anmeldungen)				Claimed? beansprucht?			
198 29 053.5 (Number) (Nummer)	Germany (Country) (Land)	29/June/1998 (Day/Month/Yea (Tag/Monat/Jahr	r Filed) elngereicht)	[X] Yes Ja	[] No Nein			
(Number) (Nummer)	(Country) (Land)	(Day/Month/Yea (Tag/Monat/Jahr	r Filed) eingereicht)	[] Yes Ja	[] No Nein			
tch beanspruche §119(e), den Vo Hilfsanmeldungen	hiermit gemäss Titel 35 rzug aller unten aufgef	, US-Code, ührten US-	I hereby claim the benefit Code, §119(c) of any application(s) below	under Title United	e 35, United States States provisional			
(Application No. /	(Application No. / Anmeldenr.) (Filing Date / Anmeldedatum)							
§120, den Vous-Patentanmeld intornationalen Al Steaten von Ame der Gegenstand dieser Patentanr Anmeldung in ei Titel 35, US-Couweise offenbart vijeglicher Informatentfähigkeit in Federal Regulatizeitraum zwische Patentanmeldung Rahmen des Versen Gebiet der Steatentanmeldung Rahmen des Versentanmelden Gebiet der Steatentanmeldung Rahmen des Versentanmeldung Gebiet der Steatentanmeldung Rahmen des Versentanmeldung Gebiet der Steatentanmeldung Gebiet	hiermit gemäss Titel 35 orzug aller unten a	i, US-Code, sufgeführten aller PCT Vereinigten ine, insofern Anspruchs ernationalen Absatz von en Art und Offenbarung Prüfung der 7, Code of sind und im der früheren n oder im enarbeit auf ET) gültigen	I hereby claim the benefit Code, §120 of any Unit §365(c) of any PCT designating the United States as the subject matter of application is not disclosed PCT International application as defined information as defined in Regulations, §1.56 which the filing date of the prior or PCT international filing	ed States Internates, listed each of d in the position in the Title 35, the duty to Title 37 became r application	s application(s), or ational application delow and, insofar the claims of this rior United States or ne manner provided United States Code, or discloso material 7, Code of Federal e available between ion and the national			

(Appl. No.) (Anmeldenr.)	(Filing Date) (Anmeldedatum)	(Status) (patentiert, anhängig aufgegeben)	(Status) (patented, pending abandoned)
(Appl. No.) (Anmeldenr.)	(Filing Date) (Anmeldedatum)	(Status) (patentiert, anhängig aufgegeben)	(Status) (patented, pending abandoned)

Ich erkläre hiermit, daß alle von mir in der vorliegenden Erklärung gemachten Angaben nach meinem besten Wissen und Gewissen der vollen Wahrheit entsprechen, und daß ich diese eidesstattliche Erklärung in Kenntnis dessen abgebe, daß wissentlich und vorsätzlich falsche Angaben gemäss §. 1001, Titel 18 US-Code strafbar sind und mit Geldstrafe und/oder Gefängnis bestraft werden können, und daß derartig wissentlich und vorsätzlich falsche Angaben die Rechtswirksamkeit der vorliegenden Patentanmeldung oder eines darauf erteilten Patentes gefährden können.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2 of 3

 VERTRETUNGSVOLLMACHT: Als benannter Erfinder beauftrage ich hiermit den nachstehend benannten Patentanwalt (oder die nachstehend benannten Patentanwälte) und/oder Vertreter mit der Verfolgung der vorliegenden Patentanmeldung sowie mit der Abwicklung aller damit verbundenen Geschäfte vor dem US-Patont-und Warenzeichenamt:

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

HENRY M. FEIEREISEN Reg. No. 31,084

Telefongespräche bitte richten an: (Name und Telefonnummer)

Direct telephone calls to: (Name and telephone number)

HENRY M. FEIEREISEN (212) 244-5500

Postanschrift:

Send Correspondence to:



PATEN 006111 HARK OFFICE

Voller Name des einzigen oder ursprünglichen Erfinders Full name of first inventor

ERNST WELLISCH

Unterschrift des Erlinders

Datum

Inventor's Signature

Date

Annit Millial

2000.12,11

Wohnsitz

Nümberg / Germany

Residence

Staatsangehörigkeit

Germany

Citizenship

Postanschrift

Bibertstrasse 84 90449 <u>Nürnberg</u> Germany DEX

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